

RESULT 1
 US-09-523-656-37
 ; Sequence 37, Application US/09523656
 ; Patent No. 6458563
 ; GENERAL INFORMATION:
 ; APPLICANT: Lollar S., John
 ; TITLE OF INVENTION: MODIFIED FACTOR VIII
 ; FILE REFERENCE: 75-95I
 ; CURRENT APPLICATION NUMBER: US/09/523,656
 ; CURRENT FILING DATE: 2000-03-10
 ; EARLIER APPLICATION NUMBER: 09/037,601
 ; EARLIER FILING DATE: 1998-03-10
 ; EARLIER APPLICATION NUMBER: 08/670,707
 ; EARLIER FILING DATE: 1996-06-26
 ; NUMBER OF SEQ ID NOS: 38
 ; SOFTWARE: PatentIn Ver. 2.0
 ; SEQ ID NO 37
 ; LENGTH: 4404
 ; TYPE: DNA
 ; ORGANISM: Porcine
 ; FEATURE:
 ; NAME/KEY: CDS
 ; LOCATION: (1)..(4401)
 US-09-523-656-37

Query Match 90.0%; Score 3962.6; DB 3; Length 4404;
 Best Local Similarity 93.8%; Pred. No. 0;
 Matches 4127; Conservative 0; Mismatches 274; Indels 0; Gaps 0;

Qy	1	ATGCAGCTAGAGCTCTCACCTGTGTCTTCTGTCTTGCCACTCGGCTTAGTGCC	60
Db	1	ATGCAGCTAGAGCTCTCACCTGTGTCTTCTGTCTTGCCACTCGGCTTAGTGCC	60
Qy	61	ATCAGGAGATACTACCTGGCGCAGTGGAACTGTCCTGGACTACCGCAAAGTGAAC	120
Db	61	ATCAGGAGATACTACCTGGCGCAGTGGAACTGTCCTGGACTACCGCAAAGTGAAC	120
Qy	121	CTCCGTGAGCTGCACGTGGACACCAGATTCTGCTACAGGCCAGGAGCTTCCGTT	180
Db	121	CTCCGTGAGCTGCACGTGGACACCAGATTCTGCTACAGGCCAGGAGCTTCCGTT	180
Qy	181	GGCCCGTCAGTCCTGTACAAAAGACTGTGTTGTAGAGTTACGGATCAACTTCAGC	240
Db	181	GGCCCGTCAGTCCTGTACAAAAGACTGTGTTGTAGAGTTACGGATCAACTTCAGC	240
Qy	241	GTTGCCAGGCCAGGCCACCATGGATGGCTGCTGGCTTACCATCCAGGCTGAGGTT	300
Db	241	GTTGCCAGGCCAGGCCACCATGGATGGCTGCTGGCTTACCATCCAGGCTGAGGTT	300
Qy	301	TACGACACGGTGGTCGTACCTGAAGAACATGGCTTCATCCGTTAGTCTCACGCT	360
Db	301	TACGACACGGTGGTCGTACCTGAAGAACATGGCTTCATCCGTTAGTCTCACGCT	360
Qy	361	GTCGGCGTCTCCTCTGAAATCTCCGAAGGCGCTGAATATGAGGATCACACCAGCAA	420
Db	361	GTCGGCGTCTCCTCTGAAATCTCCGAAGGCGCTGAATATGAGGATCACACCAGCAA	420

Qy	421	AGGGAGAAGGAAGACGATAAAGCTTCCCGTAAAGCCAAACCTACGTCTGGCAGGTC	480
Db	421	AGGGAGAAGGAAGACGATAAAGCTTCCCGTAAAGCCAAACCTACGTCTGGCAGGTC	480
Qy	481	CTGAAAGAAAATGGTCCAACAGCCTCTGACCCACCATGTCTTACCTACTCATACGTCT	540
Db	481	CTGAAAGAAAATGGTCCAACAGCCTCTGACCCACCATGTCTTACCTACTCATACGTCT	540
Qy	541	CACGTGGACCTGGTGAAGAGACCTGAATTGGGCCTCATGGAGCCCTGCTGGTTGTAGA	600
Db	541	CACGTGGACCTGGTGAAGAGACCTGAATTGGGCCTCATGGAGCCCTGCTGGTTGTAGA	600
Qy	601	GAAGGGAGTCTGACCAGAGAAAGGACCCAGAACCTGCACGAATTGTACTACTTTGCT	660
Db	601	GAAGGGAGTCTGACCAGAGAAAGGACCCAGAACCTGCACGAATTGTACTACTTTGCT	660
Qy	661	GTCTTGATGAAGGGAAAAGTTGGCACTCAGCAAGAAATGACTCCTGGACACGGGCCATG	720
Db	661	GTCTTGATGAAGGGAAAAGTTGGCACTCAGCAAGAAATGACTCCTGGACACGGGCCATG	720
Qy	721	GATCCCGCACCTGCCAGGGCCCAGCCTGCAATGCACACAGTCATGGCTATGTCAACAGG	780
Db	721	GATCCCGCACCTGCCAGGGCCCAGCCTGCAATGCACACAGTCATGGCTATGTCAACAGG	780
Qy	781	TCTCTGCCAGGTCTGATGGATGTATAAGAAATCAGTCTACTGGCACGTGATTGGAATG	840
Db	781	TCTCTGCCAGGTCTGATGGATGTATAAGAAATCAGTCTACTGGCACGTGATTGGAATG	840
Qy	841	GGCACCAAGCCCGGAAGTGCACTCCATTTCCTGAAGGCCACACGTTCTCGTGAGGCAC	900
Db	841	GGCACCAAGCCCGGAAGTGCACTCCATTTCCTGAAGGCCACACGTTCTCGTGAGGCAC	900
Qy	901	CATGCCAGGCTTCCCTGGAGATCTGCCACTAACTTCCACTGCTCAGACATTCTG	960
Db	901	CATGCCAGGCTTCCCTGGAGATCTGCCACTAACTTCCACTGCTCAGACATTCTG	960
Qy	961	ATGGACCTTGGCCAGTTCTACTGTTGTATCTCTCCCACCACCATGGTGGCATG	1020
Db	961	ATGGACCTTGGCCAGTTCTACTGTTGTATCTCTCCCACCACCATGGTGGCATG	1020
Qy	1021	GAGGCTCACGTCAAGTAGAAAGCTCGCCGAGGAGCCCCAGCTCGGGAGGAAAGCTGAT	1080
Db	1021	GAGGCTCACGTCAAGTAGAAAGCTCGCCGAGGAGCCCCAGCTCGGGAGGAAAGCTGAT	1080
Qy	1081	GAAGAGGAAGATTATGATGACAATTGTACGACTCGGACATGGACGTGGTCCGGCTGAT	1140
Db	1081	GAAGAGGAAGATTATGATGACAATTGTACGACTCGGACATGGACGTGGTCCGGCTGAT	1140
Qy	1141	GGTGACGACGTGTCTCCCTTATCCAATCCGCTCAGTTGCCAAGAACATCCTAAACT	1200
Db	1141	GGTGACGACGTGTCTCCCTTATCCAATCCGCTCGGTTGCCAAGAACATCCAAAACC	1200
Qy	1201	TGGGTACATTACATTGCTGCTGAAGAGGAGGACTGGGACTATGCTCCCTAGTCCTCGCC	1260
Db	1201	TGGGTGCACTACATCTCTGCAGAGGAGGAGGACTGGGACTACGCCCGCGGTCCCCAGC	1260
Qy	1261	CCCGATGACAGAAGTTAAAAAGTCATATTGAACAATGGCCCTAGCGGATTGGTAGG	1320

Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
1261 CCCAGTGACAGAAGTTATAAAAGTCTACTTGAACAGTGGTCCTCAGCGAATTGGTAGG 1320

Qy ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
1321 AAGTACAAAAAAAGTCCGATTTATGGCATAACAGATGAAACCTTAAGACGCGTGAAGCT 1380

Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
1321 AAATACAAAAAAAGCTCGATTCGTCGCTTACACGGATGTAACATTAAAGACTCGTAAAGCT 1380

Qy ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
1381 ATTCAGCATGAATCAGGAATCTGGGACCTTACTTTATGGGAAGTTGGAGACACACTG 1440

Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
1381 ATTCCGTATGAATCAGGAATCCTGGGACCTTACTTTATGGAGAAGTTGGAGACACACTT 1440

Qy ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
1441 TTGATTATATTTAAGAATCAAGCAAGCAGACCATATAACATCTACCCACGGAAATCACT 1500

Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
1441 TTGATTATATTTAAGAATAAAGCGAGCCGACCATATAACATCTACCCATGGAAATCACT 1500

Qy ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
1501 GATGTCCGTCTTGTATTCAAGGAGATTACCAAAAGGTGTAAACATTGAAGGATTT 1560

Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
1501 GATGTCAGCGCTTGCACCCAGGGAGACTTCTAAAGGTGGAAACATTGAAAGACATG 1560

Qy ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
1561 CCAATTCTGCCAGGAGAAAATTCAAATATAATGGACAGTGACTGTAGAAGATGGCCA 1620

Db ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
1561 CCAATTCTGCCAGGAGAGACTTCAAGTATAATGGACAGTGACTGTGGAAAGATGGCCA 1620

Qy ||||| ||||| ||||| ||||| ||||| ||||| |||||
1621 ACTAAATCAGATCCCGCGTGCCTGACCCGCTATTACTCTAGTTCTTAATATGGAGAGA 1680

Db ||||| ||||| ||||| ||||| ||||| ||||| |||||
1621 ACCAAGTCCGATCCTCGGTGCCTGACCCGCTACTACTCGAGCTCCATTAAATCTAGAGAAA 1680

Qy ||||| ||||| ||||| ||||| ||||| ||||| |||||
1681 GATCTAGCTTCAGGACTCATTGCCCTCTCCTCATCTGCTACAAAGAATCTGTAGATCAA 1740

Db ||||| ||||| ||||| ||||| ||||| ||||| |||||
1681 GATCTGGCTTCGGGACTCATTGCCCTCTCCTCATCTGCTACAAAGAATCTGTAGACCAA 1740

Qy ||||| ||||| ||||| ||||| ||||| |||||
1741 AGAGGAAACCAGATAATGTCAGACAAGAGGAATGTCATCCTGTTCTGTATTGATGAG 1800

Db ||||| ||||| ||||| ||||| ||||| |||||
1741 AGAGGAAACCAGATGATGTCAGACAAGAGAAACGTCATCCTGTTCTGTATTGATGAG 1800

Qy ||||| ||||| ||||| |||||
1801 AACCGAAGCTGGTACCTCACAGAGAAATACAAACGCTTCTCCCCAATCCAGCTGGAGTG 1860

Db ||||| ||||| ||||| |||||
1801 AATCAAAGCTGGTACCTCGCAGAGAAATTAGCGCTTCTCCCCAATCCGGATGGATTA 1860

Qy ||||| ||||| |||||
1861 CAGCTTGAGGATCCAGAGTTCCAAGCCTCAACATCATGCACAGCATCAATGGCTATGTT 1920

Db ||||| ||||| |||||
1861 CAGCCCCAGGATCCAGAGTTCCAAGCTTCTAACATCATGCACAGCATCAATGGCTATGTT 1920

Qy ||||| ||||| |||||
1921 TTTGATAGTTGCAGTTGCAGTTGTCAGTTGTCAGGTTGGCATACTGGTACATTCTAAGC 1980

Db ||||| ||||| |||||
1921 TTTGATAGCTGCACTGTCGGTTGTCAGGTTGGCATACTGGTACATTCTAAGT 1980

Qy ||||| ||||| |||||
1981 ATTGGAGCACAGACTGACTTCCTTCTGTCTTCTCTGGATATACTTCAAACACAAA 2040

Db ||||| ||||| |||||
1981 GTTGGAGCACAGACGGACTTCCTCTCCGCTTCTCTGGCTACACCTTCAAACACAAA 2040

Qy ||||| ||||| |||||
2041 ATGGTCTATGAAGACACACTCACCCATTCTCAGGAGAAACTGTCTCATGTCTG 2100

Db ||||| ||||| |||||
2041 ATGGTCTATGAAGACACACTCACCCGTTCCCTCTCAGGAGAAACGGTCTCATGTCA 2100

Qy ||||| ||||| |||||
2101 ATGGAAAACCCAGGTCTATGGATTCTGGGTGCCACAACCTCAGACTTCGGAACAGAGGC 2160

Db	2101	ATGGAAAACCCAGGTCTCTGGGCCTTGGGTGCCACAACACTCAGACTTGCAGAACAGAGGG	2160
Qy	2161	ATGACCGCCTTACTGAAGGTTCTAGTTGTGACAAGAACACTGGTATTATTACGAGGAC	2220
Db	2161	ATGACAGCCTTACTGAAGGTGTATAGTTGTGACAGGGACATTGGTATTATTATGACAAC	2220
Qy	2221	AGTTATGAAGATATTCAGCATACTTGCTGAGTAAAAACAATGCCATTGAACCTAGGAGC	2280
Db	2221	ACTTATGAAGATATTCCAGGCTTCTGCTGAGTGGAAAGAATGTCATTGAACCTAGGAGC	2280
Qy	2281	TTTGCCCAGAATTCAAGACCCCTAGTGCAGCGCTCCAAAGCCTCCGGCTCGACGG	2340
Db	2281	TTTGCCCAGAATTCAAGACCCCTAGTGCAGCGCTCCAAAGCCTCCGGCTCGACGG	2340
Qy	2341	CATCAGAGGGACATAAGCCTTCCTACTTTCAGCCGGAGGAAGACAAAATGGACTATGAT	2400
Db	2341	CATCAGAGGGACATAAGCCTTCCTACTTTCAGCCGGAGGAAGACAAAATGGACTATGAT	2400
Qy	2401	GATATCTCTCAACTGAAACGAAGGGAGAAGAGATTTGACATTACGGTGAGGATGAAAT	2460
Db	2401	GATATCTCTCAACTGAAACGAAGGGAGAAGAGATTTGACATTACGGTGAGGATGAAAT	2460
Qy	2461	CAGGACCCCTCGCAGCTTCAGAAGAGAACCGACACTATTTCATTGCTGCGGTGGAGCAG	2520
Db	2461	CAGGACCCCTCGCAGCTTCAGAAGAGAACCGACACTATTTCATTGCTGCGGTGGAGCAG	2520
Qy	2521	CTCTGGGATTACGGGATGAGCGAATCCCCCGGGCGCTAAGAACAGGGCTCAGAACGGA	2580
Db	2521	CTCTGGGATTACGGGATGAGCGAATCCCCCGGGCGCTAAGAACAGGGCTCAGAACGGA	2580
Qy	2581	GAGGTGCCTCGGTTCAAGAAGGTGGTCTCCGGAAATTGCTGACGGCTCCTCACGCAG	2640
Db	2581	GAGGTGCCTCGGTTCAAGAAGGTGGTCTCCGGAAATTGCTGACGGCTCCTCACGCAG	2640
Qy	2641	CCGTCGTACCGCGGGGAACCTCAACAAACACTTGGGCTTGGGACCCCTACATCAGAGCG	2700
Db	2641	CCGTCGTACCGCGGGGAACCTCAACAAACACTTGGGCTTGGGACCCCTACATCAGAGCG	2700
Qy	2701	GAAGTTGAAGACAACATCATGGTAACATTCAAAACCAGGCGTCTCGTCCCTATTCTTC	2760
Db	2701	GAAGTTGAAGACAACATCATGGTAACATTCAAAACCAGGCGTCTCGTCCCTATTCTTC	2760
Qy	2761	TACTCGAGCCTTATTCTTATCCGGATGATCAGGAGCAAGGGCAGAACCTCGACACAAC	2820
Db	2761	TACTCGAGCCTTATTCTTATCCGGATGATCAGGAGCAAGGGCAGAACCTCGACACAAC	2820
Qy	2821	TTCGTCCAGCCAATGAAACCAGAACACTTACTTTGGAAAGTGCAGCATCACATGGCACCC	2880
Db	2821	TTCGTCCAGCCAATGAAACCAGAACACTTACTTTGGAAAGTGCAGCATCACATGGCACCC	2880
Qy	2881	ACAGAAGACGAGTTGACTGCAAAGCCTGGCCTACTTTCTGATGTTGACCTGGAAAAAA	2940
Db	2881	ACAGAAGACGAGTTGACTGCAAAGCCTGGCCTACTTTCTGATGTTGACCTGGAAAAAA	2940
Qy	2941	GATGTGCACTCAGGCTTGATCGGCCCCCTCTGATCTGCCGCGCAACACCCCTGAACGCT	3000
Db	2941	GATGTGCACTCAGGCTTGATCGGCCCCCTCTGATCTGCCGCGCAACACCCCTGAACGCT	3000

Qy	3001	GCTCACGGTAGACAAGTGACCGTGAAGAATTGCTCTGTTTCACTATTTGATGAG	3060
Db	3001	GCTCACGGTAGACAAGTGACCGTGAAGAATTGCTCTGTTTCACTATTTGATGAG	3060
Qy	3061	ACAAAGAGCTGGTACTTCACTGAAAATGTGGAAAGGAAC TGCCGGGCCCCCTGCCATCTG	3120
Db	3061	ACAAAGAGCTGGTACTTCACTGAAAATGTGGAAAGGAAC TGCCGGGCCCCCTGCCATCTG	3120
Qy	3121	CAGATGGAGGACCCCCTGAAAGAAAAC TATCGCTTCCATGCAATCAATGGCTATGTG	3180
Db	3121	CAGATGGAGGACCCCCTGAAAGAAAAC TATCGCTTCCATGCAATCAATGGCTATGTG	3180
Qy	3181	ATGGATACACTCCCTGGCTTAGTAATGGCTCAGAACAGGATCCGATGGTATCTGCTC	3240
Db	3181	ATGGATACACTCCCTGGCTTAGTAATGGCTCAGAACAGGATCCGATGGTATCTGCTC	3240
Qy	3241	AGCATGGGCAGCAATGAAAATATCCATTGATTCAATTGCGGACACGTGTTCAGTGTA	3300
Db	3241	AGCATGGGCAGCAATGAAAATATCCATTGATTCAATTGCGGACACGTGTTCAGTGTA	3300
Qy	3301	CGGAAAAGGAGGAGTAAAATGCCGTGTACAATCTATCCGGGTGTTGAGACA	3360
Db	3301	CGGAAAAGGAGGAGTAAAATGCCGTGTACAATCTATCCGGGTGTTGAGACA	3360
Qy	3361	GTGGAAATGCTACCGTCAAAGTTGGAATTGGCGAATAGAACGCTGATTGGCGAGCAC	3420
Db	3361	GTGGAAATGCTACCGTCAAAGTTGGAATTGGCGAATAGAACGCTGATTGGCGAGCAC	3420
Qy	3421	CTGCAAGCTGGATGAGCACGACTTCCTGGTGTACAGAACAGTGTCAAGACTCCCCTG	3480
Db	3421	CTGCAAGCTGGATGAGCACGACTTCCTGGTGTACAGAACAGTGTCAAGCTCCACTG	3480
Qy	3481	GGAATGGCTCTGGACACATTAGAGATTTCAGATTACAGCTTCAGGACAATATGGACAG	3540
Db	3481	GGAATGGCTCTGGACGCATTAGAGATTTCAGATCACAGCTTCAGGACAGTATGGACAG	3540
Qy	3541	TGGGCCCAAAGCTGCCAGACTTCATTATTCCGGATCAATCAATGCCTGGAGCACCAAG	3600
Db	3541	TGGGCCCAAAGCTGCCAGACTTCATTATTCCGGATCAATCAATGCCTGGAGCACCAAG	3600
Qy	3601	GAGCCCTTTCTGGATCAAGGTGGATCTGTTGGCACCAATGATTATCACGGCATCAAG	3660
Db	3601	GATCCCCACTCCTGGATCAAGGTGGATCTGTTGGCACCAATGATCATTACGGCATCATG	3660
Qy	3661	ACCCAGGGTGCCGTAGAACGTTCTCCAGCCTTACATCTCAGTTATCATCATGTAT	3720
Db	3661	ACCCAGGGTGCCGTAGAACGTTCTCCAGCCTTACATCTCCAGTTATCATCATGTAC	3720
Qy	3721	AGTCTTGATGGAAAGAACAGTGGCAGACTTATCGAGGAAATTCCACTGGAACCTTAATGGTC	3780
Db	3721	AGTCTTGACGGGAGGAAC TGGCAGAGTTACCGAGGGATTCCACGGCACCTTAATGGTC	3780
Qy	3781	TTCTTGCAATGTGGATTCACTGGGATAAAACACAATATTTAACCTCCAATTATT	3840
Db	3781	TTCTTGCAATGTGGACGCATCTGGGATTAAACACAATATTTAACCTCCGATTGTG	3840

Qy	3841	GCTCGATACATCCGTTGCACCCAACTCATTATAGCATTGCAGCAGCACTCTCGCATGGAG	3900
Db	3841	GCTCGGTACATCCGTTGCACCCAAACACATTACAGCATCCGCAGCACTCTCGCATGGAG	3900
Qy	3901	TTGATGGCTGTGATTAAATAGTTGCAGCATGCCATTGGAAATGGAGAGTAAAGCAATA	3960
Db	3901	TTGATGGCTGTGATTAAACAGTTGCAGCATGCCCTGGAAATGCAGAATAAAGCGATA	3960
Qy	3961	TCAGATGCACAGATTACTGCTTCATCCTACTTACCAATATGTTGCCACCTGGTCTCCT	4020
Db	3961	TCAGACTCACAGATCACGGCCTCCTCCCACCTAACGAAATATATTGCCACCTGGTCTCCT	4020
Qy	4021	TCAAAAGCTCGACTTCACCTCCAAGGGAGGAGTAATGCCCTGGAGACCTCAGGTGAATAAT	4080
Db	4021	TCACAAGCCCGACTTCACCTCCAGGGCGGACGAATGCCCTGGGACCCCGGGTGAGCAGC	4080
Qy	4081	CCAAAAGAGTGGCTGCAAGTGGACTTCCAGAACATGAAAGTCACAGGAGTAACACT	4140
Db	4081	GCAGAGGAGTGGCTGCAGGTGGACCTGCAGAACAGGTGAAGGTACAGGCATCACCACC	4140
Qy	4141	CAGGGAGTAAAATCTCTGCTTACCAAGCATGTATGTGAAGGAGTCCTCATCTCCAGCAGT	4200
Db	4141	CAGGGCGTGAAGTCCCTGCTCAGCAGCATGTATGTGAAGGAGTCCTCGTGTCCAGTAGT	4200
Qy	4201	CAAGATGGCCATCAGTGGACTCTCTTTTCAGAACGAAAGTAAAGGTTTCAGGGA	4260
Db	4201	CAGGACGGCCGCCGCTGGACCTGTTCTTCAGGACGGCACACGAAGGTTTCAGGGC	4260
Qy	4261	AATCAAGACTCCTTCACACCTGTGGTAACCTCTAGACCCACCGTTACTGACTCGCTAC	4320
Db	4261	AATCAGGACTCCTCCACCCCGTGGTAACGCTCTGGACCCCCCGCTGTTCACGCGCTAC	4320
Qy	4321	CTTCGAATTACCCCCAGAGTTGGGTGCACCAAGATTGCCCTGAGGATGGAGGTTCTGGGC	4380
Db	4321	CTGAGGATCCACCCACGAGCTGGCGCAGCACATGCCCTGAGGCTCGAGGTTCTAGGA	4380
Qy	4381	TGCGAGGCACAGGACCTCTAC	4401
Db	4381	TGTGAGGCACAGGATCTCTAC	4401

RESULT 2

US-08-670-707A-38

; Sequence 38, Application US/08670707A
 ; Patent No. 5859204
 ; GENERAL INFORMATION:
 ; APPLICANT: Lollar, John S.
 ; TITLE OF INVENTION: Hybrid Human/Animal Factor VIII
 ; NUMBER OF SEQUENCES: 40
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Greenlee, Winner and Sullivan, P.C.
 ; STREET: 5370 Manhattan Circle Suite 201
 ; CITY: Boulder
 ; STATE: Colorado
 ; COUNTRY: USA
 ; ZIP: 80303
 ; COMPUTER READABLE FORM:

;
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
;
CURRENT APPLICATION DATA:
;
APPLICATION NUMBER: US/08/670,707A
;
FILING DATE: 26-JUN-1996
;
CLASSIFICATION: 435
;
PRIOR APPLICATION DATA:
;
APPLICATION NUMBER: WO PCT/US94/13200
;
FILING DATE: 15-NOV-1994
;
PRIOR APPLICATION DATA:
;
APPLICATION NUMBER: US 08/212,133
;
FILING DATE: 11-MAR-1994
;
PRIOR APPLICATION DATA:
;
APPLICATION NUMBER: US 07/864,004
;
FILING DATE: 07-APR-1992
;
ATTORNEY/AGENT INFORMATION:
;
NAME: Greenlee, Lorance L.
;
REGISTRATION NUMBER: 27,894
;
REFERENCE/DOCKET NUMBER: 75-95F
;
TELECOMMUNICATION INFORMATION:
;
TELEPHONE: 303/499-8080
;
TELEFAX: 303/499-8089
;
INFORMATION FOR SEQ ID NO: 38:
;
SEQUENCE CHARACTERISTICS:
;
LENGTH: 4334 base pairs
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TYPE: nucleic acid
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STRANDEDNESS: double
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TOPOLOGY: not relevant
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MOLECULE TYPE: cDNA to mRNA
;
HYPOTHETICAL: NO
;
ORIGINAL SOURCE:
;
INDIVIDUAL ISOLATE: Factor VIII lacking B domain
;
FEATURE:
;
NAME/KEY: CDS
;
LOCATION: 3..4334

US-08-670-707A-38

Query Match 86.4%; Score 3802.2; DB 2; Length 4334;
Best Local Similarity 92.0%; Pred. No. 0;
Matches 4051; Conservative 0; Mismatches 278; Indels 72; Gaps 1;

Qy 1 ATGCAGCTAGAGCTCTCACCTGTGTCTTCTGTGTCTTGCCACTCGGCTTAGTGCC 60
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Db 3 ATGCAGCTAGAGCTCTCACCTGTGTCTTCTGTGTCTTGCCACTCGGCTTAGTGCC 62

Qy 61 ATCAGGAGATACTACCTGGCGCAGTGGAACTGTCCCTGGACTACCGGCAAAGTGAAC 120
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Db 63 ATCAGGAGATACTACCTGGCGCAGTGGAACTGTCCCTGGACTACCGGCAAAGTGAAC 122

Qy 121 CTCCGTGAGCTGCACGTGGACACCAGATTCTGCTACAGCGCCAGGAGCTTCCGTT 180
|||
Db 123 CTCCGTGAGCTGCACGTGGACACCAGATTCTGCTACAGCGCCAGGAGCTTCCGTT 182

Qy 181 GGCCCGTCAGTCCTGTACAAAAGACTGTGTTGTAGAGTTCACGGATCAACTTTCAGC 240
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Db 183 GGCCCGTCAGTCCTGTACAAAAGACTGTGTCGTAGAGTTACGGATCAACTTCAGC 242
Qy 241 GTGCCAGGCCAGGCCACCATGGATGGGCTGCTGGCTACCATCCAGGCTGAGGTT 300
|||
Db 243 GTGCCAGGCCAGGCCACCATGGATGGGCTGCTGGCTACCATCCAGGCTGAGGTT 302
Qy 301 TACGACACGGTGGTCGTACCTGAAGAACATGGCTCTCATCCGTTAGTCTTCACGCT 360
|||
Db 303 TACGACACGGTGGTCGTACCTGAAGAACATGGCTCTCATCCGTTAGTCTTCACGCT 362
Qy 361 GTCGGCGTCTCCTCTGAAATCTCCGAAGGCCTGAATATGAGGATCACACCAGCAA 420
|||
Db 363 GTCGGCGTCTCCTCTGAAATCTCCGAAGGCCTGAATATGAGGATCACACCAGCAA 422
Qy 421 AGGGAGAAGGAAGACGATAAAAGCTTCCCGTAAAGCCAAACCTACGTCTGGCAGGTC 480
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Db 423 AGGGAGAAGGAAGACGATAAAAGCTTCCCGTAAAGCCAAACCTACGTCTGGCAGGTC 482
Qy 481 CTGAAAGAAAATGGTCCAACAGCCTCTGACCCACCATGTCTTACCTACTCATACGTCT 540
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Db 483 CTGAAAGAAAATGGTCCAACAGCCTCTGACCCACCATGTCTCACCTACTCATACGTCT 542
Qy 541 CACGTGGACCTGGTAAAGACCTGAATTGGCCTCATGGAGCCCTGCTGGTTGTAGA 600
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Db 543 CACGTGGACCTGGTAAAGACCTGAATTGGCCTCATGGAGCCCTGCTGGTTGTAGA 602
Qy 601 GAAGGGAGTCTGACCAGAGAAAGGACCCAGAACCTGCACGAATTGTACTACTTTGCT 660
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Db 603 GAAGGGAGTCTGACCAGAGAAAGGACCCAGAACCTGCACGAATTGTACTACTTTGCT 662
Qy 661 GTCTTGATGAAGGGAAAAGTTGGCACTCAGCAAGAAATGACTCCTGGACACGGGCATG 720
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Db 663 GTCTTGATGAAGGGAAAAGTTGGCACTCAGCAAGAAATGACTCCTGGACACGGGCATG 722
Qy 721 GATCCCGCACCTGCCAGGGCCAGCCTGCAATGCACACAGTCATGGCTATGTCAACAGG 780
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Db 723 GATCCCGCACCTGCCAGGGCCAGCCTGCAATGCACACAGTCATGGCTATGTCAACAGG 782
Qy 781 TCTCTGCCAGGTCTGATGGATGTACAAGAAATCAGTCTACTGGCACGTGATTGAATG 840
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Db 783 TCTCTGCCAGGTCTGATGGATGTACAAGAAATCAGTCTACTGGCACGTGATTGAATG 842
Qy 841 GGCACCAGCCCGAAGTGCACCTCCATTTCCTGAAGGCCACACGTTCTCGTGAGGCAC 900
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Db 843 GGCACCAGCCCGAAGTGCACCTCCATTTCCTGAAGGCCACACGTTCTCGTGAGGCAC 902
Qy 901 CATGCCAGGCTCCCTGGAGATCTGCCACTAACCTTCCTCACTGCTCAGACATTCTG 960
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Db 903 CATGCCAGGCTCCCTGGAGATCTGCCACTAACCTTCCTCACTGCTCAGACATTCTG 962
Qy 961 ATGGACCTTGGCCAGTTCTACTGTTGTATCTCTCCCACCACTGGTGGCATG 1020
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Db 963 ATGGACCTTGGCCAGTTCTACTGTTGTATCTCTCCCACCACTGGTGGCATG 1022
Qy 1021 GAGGCTCACGTCAAGAGTAGAAAGCTGCGCCGAGGAGCCCCAGCTGCGGAGGAAAGCTGAT 1080
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Db 1023 GAGGCTCACGTCAAGAGTAGAAAGCTGCGCCGAGGAGCCCCAGCTGCGGAGGAAAGCTGAT 1082

Qy	1081	GAAGAGGAAGATTATGATGACAATTGTACGACTCGGACATGGACGTGGTCCGGCTCGAT	1140
Db	1083	GAAGAGGAAGATTATGATGACAATTGTACGACTCGGACATGGACGTGGTCCGGCTCGAT	1142
Qy	1141	GGTGACGACGTGTCCCTTATCAAATCCGCTCAGTTGCCAAGAACATCCTAAACT	1200
Db	1143	GGTGACGACGTGTCCCTTATCAAATCCGCTCGGTTGCCAAGAACATCCCAAAC	1202
Qy	1201	TGGGTACATTACATTGCTGCTGAAGAGGAGGACTGGGACTATGCTCCCTAGTCCTCGCC	1260
Db	1203	TGGGTGCACTACATCTCGCAGAGGAGGAGCTGGGACTACGCCCGCGTCCCAGC	1262
Qy	1261	CCCGATGACAGAAGTTATAAAAGTCATATTGAAACAATGGCCCTCAGCGGATTGGTAGG	1320
Db	1263	CCCAGTGACAGAAGTTATAAAAGTCCTACTTGAAACAGTGGCCTCAGCGAATTGGTAGG	1322
Qy	1321	AAGTACAAAAAAGTCGATTATGGCATACACAGATGAAACCTTAAGACGCGTGAAGCT	1380
Db	1323	AAATACAAAAAAGCTCGATTGTCGCTTACACGGATGTAACATTAAAGACTCGTAAAGCT	1382
Qy	1381	ATTCAGCATGAATCAGGAATCTGGACCTTACTTATGGGAAGTTGGAGACACACTG	1440
Db	1383	ATTCGGTATGAATCAGGAATCTGGACCTTACTTATGGAGAAGTTGGAGACACACTT	1442
Qy	1441	TTGATTATTTAAGAATCAAGCAAGCAGACCATATAACATCTACCCACGGAAATCACT	1500
Db	1443	TTGATTATTTAAGAATAAGCGAGCCGACCATATAACATCTACCCATGGAAATCACT	1502
Qy	1501	GATGTCCGTCCTTGTATTCAAGGAGATTACCAAAAGGTGAAACATTGAAAGGATT	1560
Db	1503	GATGTCAGCGCTTGCACCCAGGGAGACTTCTAAAGGTGAAACATTGAAAGACATG	1562
Qy	1561	CCAATTCTGCCAGGAGAAATATTCAAATATAATGGACAGTGAAGATGGCCA	1620
Db	1563	CCAATTCTGCCAGGAGAGACTTCAAGTATAATGGACAGTGAAGATGGCCA	1622
Qy	1621	ACTAAATCAGATCCCGGGTGCCTGACCCGCTATTACTCTAGTTGTTAATATGGAGAGA	1680
Db	1623	ACCAAGTCCGATCCTCGGTGCCTGACCCGCTACTACTCGAGCTCCATTAACTAGAGAAA	1682
Qy	1681	GATCTAGCTTCAGGACTCATGGCCCTCCTCATCTGCTACAAAGAACATGTAGATCAA	1740
Db	1683	GATCTGGCTTCGGGACTCATTGGCCCTCCTCATCTGCTACAAAGAACATGTAGACCAA	1742
Qy	1741	AGAGGAAACCAGATAATGTCAGACAAGAGGAATGTCATCCTGTTCTGTATTTGATGAG	1800
Db	1743	AGAGGAAACCAGATGTCAGACAAGAGAACGTCATCCTGTTCTGTATTCGATGAG	1802
Qy	1801	AACCGAAGCTGGTACCTCACAGAGAATATACAACGCTTCTCCCCAATCCAGCTGGAGTG	1860
Db	1803	AATCAAAGCTGGTACCTCGCAGAGAATATTCAAGCGCTTCTCCCCAATCCGGATGGATTA	1862
Qy	1861	CAGCTTGAGGATCCAGAGTTCCAAGCCTCAACATCATGCACAGCATCAATGGCTATGTT	1920
Db	1863	CAGCCCCAGGATCCAGAGTTCCAAGCTCTAACATCATGCACAGCATCAATGGCTATGTT	1922

Qy	1921	TTTGATAGTTGCAGTTGCAGTTGTTGCATGAGGTGGCATACTGGTACATTCTAAGC	1980
Db	1923	TTTGATAGCTTGCAGCTGTCGGTTGTTGCACGAGGTGGCATACTGGTACATTCTAAGT	1982
Qy	1981	ATTGGAGCACAGACTGACTTCCTTCTGTCTTCTCTGGATATACCTCAAACACAAA	2040
Db	1983	GTTGGAGCACAGACGGACTTCCTCTCGTCTTCTCTGGCTACACCTCAAACACAAA	2042
Qy	2041	ATGGTCTATGAAGACACACTCACCCATTCCATTCTCAGGAGAACTGTCTCATGTC	2100
Db	2043	ATGGTCTATGAAGACACACTCACCTGTTCCCTCTCAGGAGAAACGGTCTCATGTC	2102
Qy	2101	ATGGAAAACCCAGGTCTATGGATTCTGGGTGCCACAACCTCAGACTTCGGAACAGAGG	2160
Db	2103	ATGGAAAACCCAGGTCTCTGGTCCTAGGGTCCACAACCTCAGACTTCGGAACAGAGG	2162
Qy	2161	ATGACCGCCTACTGAAGGTTCTAGTTGTGACAAGAACACTGGTATTACGAGGAC	2220
Db	2163	ATGACAGCCTACTGAAGGTGTAGTTGTGACAGGGACATTGGTATTATGACAAC	2222
Qy	2221	AGTTATGAAGATATTCAGCATACTTGCTGAGTAAAAACAATGCCATTGAACTAGGAGC	2280
Db	2223	ACTTATGAAGATATTCCAGGCTTCTGCTGAGTGGAAAGAATGTCATTGAACTTGAAC	2279
		--- --- --- --- --- --- --- --- --- --- --- --- --- --- ---	
Qy	2281	TTGCCAGAATTCAAGACCCCTAGTGCAGCGCTCCAAAGCCTCCGGCTCGCACGG	2340
Db	2280	-----	2279

Qy	2341	CATCAGAGGGACATAAGCCTTCCTACTTTCAGCCGGAGGAAGACAAATGGACTATGAT	2400
Db	2280	-----GACATAAGCCTTCCTACTTTCAGCCGGAGGAAGACAAATGGACTATGAT	2330

Qy	2401	GATATCTTCTCAACTGAAACGAAGGGAGAAGATTTGACATTACGGTGAGGATGAAAT	2460
Db	2331	GATATCTTCTCAACTGAAACGAAGGGAGAAGATTTGACATTACGGTGAGGATGAAAT	2390
Qy	2461	CAGGACCCCTCGCAGCTTCAGAAGAGAACCGACACTATTCAATTGCTGCGGTGGAGCAG	2520
Db	2391	CAGGACCCCTCGCAGCTTCAGAAGAGAACCGACACTATTCAATTGCTGCGGTGGAGCAG	2450
Qy	2521	CTCTGGGATTACGGGATGAGCGAATCCCCCGGGCGCTAACGAAACAGGGCTCAGAACGGA	2580
Db	2451	CTCTGGGATTACGGGATGAGCGAATCCCCCGGGCGCTAACGAAACAGGGCTCAGAACGGA	2510
Qy	2581	GAGGTGCCTCGGTTCAAGAAGGTGGCTTCCGGAAATTGCTGACGGCTCCTCACGCAG	2640
Db	2511	GAGGTGCCTCGGTTCAAGAAGGTGGCTTCCGGAAATTGCTGACGGCTCCTCACGCAG	2570
Qy	2641	CCGTCGTACCGCGGGAACTCAACAAACACTTGGGCTTGGGACCCCTACATCAGAGCG	2700
Db	2571	CCGTCGTACCGCGGGAACTCAACAAACACTTGGGCTTGGGACCCCTACATCAGAGCG	2630
Qy	2701	GAAGTTGAAGACAACATCATGGTAACATTCAAAACAGGGCTCGTCCCTATTCTTC	2760
Db	2631	GAAGTTGAAGACAACATCATGGTAACATTCAAAACAGGGCTCGTCCCTATTCTTC	2690
Qy	2761	TACTCGAGCCTTATTCTTATCCGATGATCAGGAGCAAGGGCAGAACCTGACACAAC	2820

Db ||||||| 2691 TACTCGAGCCTTATTCTTATCCGATGATCAGGAGCAAGGGCAGAACCTGACACAAC 2750

Qy ||||||| 2821 TTCTGCCAGCCAAATGAAACCAGAACTTACTTTGGAAAGTGCAGCATCACATGGCACCC 2880

Db ||||||| 2751 TTCTGCCAGCCAAATGAAACCAGAACTTACTTTGGAAAGTGCAGCATCACATGGCACCC 2810

Qy ||||||| 2881 ACAGAAGACGAGTTGACTGCAAAGCCTGGCCTACTTTCTGATGTTGACCTGGAAAAAA 2940

Db ||||||| 2811 ACAGAAGACGAGTTGACTGCAAAGCCTGGCCTACTTTCTGATGTTGACCTGGAAAAAA 2870

Qy ||||||| 2941 GATGTGCACTCAGGCTTGTATCGGCCCTCTGATCTGCCGCGCAACACCCCTGAACGCT 3000

Db ||||||| 2871 GATGTGCACTCAGGCTTGTATCGGCCCTCTGATCTGCCGCGCAACACCCCTGAACGCT 2930

Qy ||||||| 3001 GCTCACGGTAGACAAGTGAACCGTGAAGAATTGCTCTGTTTCACTATTTGATGAG 3060

Db ||||||| 2931 GCTCACGGTAGACAAGTGAACCGTGAAGAATTGCTCTGTTTCACTATTTGATGAG 2990

Qy ||||||| 3061 ACAAAAGAGCTGGTACTTCACTGAAAATGTGGAAAGGAACGCCGGCCCCCTGCCATCTG 3120

Db ||||||| 2991 ACAAAAGAGCTGGTACTTCACTGAAAATGTGGAAAGGAACGCCGGCCCCCTGCCACCTG 3050

Qy ||||||| 3121 CAGATGGAGGACCCACTCTGAAAGAAAATATCGCTTCCATGCAATCAATGGCTATGTG 3180

Db ||||||| 3051 CAGATGGAGGACCCACTCTGAAAGAAAATATCGCTTCCATGCAATCAATGGCTATGTG 3110

Qy ||||||| 3181 ATGGATACACTCCCTGGCTTAGTAATGGCTCAGAACAGGATCCGATGGTATCTGCTC 3240

Db ||||||| 3111 ATGGATACACTCCCTGGCTTAGTAATGGCTCAGAACAGGATCCGATGGTATCTGCTC 3170

Qy ||||||| 3241 AGCATGGGCAGCAATGAAAATATCCATTGATTCTGATTCTAGCGGACACGTGTTAGTGT 3300

Db ||||||| 3171 AGCATGGGCAGCAATGAAAATATCCATTGATTCTGATTCTAGCGGACACGTGTTAGTGT 3230

Qy ||||||| 3301 CGGAAAAGGAGGAGTAAAATGCCGTGTACAATCTATCCGGGTGTTGAGACA 3360

Db ||||||| 3231 CGGAAAAGGAGGAGTAAAATGCCGTGTACAATCTATCCGGGTGTTGAGACA 3290

Qy ||||||| 3361 GTGGAAATGCTACCGTCAAAGTTGGAATTGGCGAATAGAACGCTGATTGGCGAGCAC 3420

Db ||||||| 3291 GTGGAAATGCTACCGTCAAAGTTGGAATTGGCGAATAGAACGCTGATTGGCGAGCAC 3350

Qy ||||||| 3421 CTGCAAGCTGGATGAGCACGACTTCCCTGGTGTACAGCAAGAAGTGTCAAGACTCCCCTG 3480

Db ||||||| 3351 CTGCAAGCTGGATGAGCACGACTTCCCTGGTGTACAGCAAGAAGTGTCAAGGCTTCACTG 3410

Qy ||||||| 3481 GGAATGGCTTCTGGACACATTAGAGATTTCAGATTACAGCTCAGGACAATATGGACAG 3540

Db ||||||| 3411 GGAATGGCTTCTGGACGCATTAGAGATTTCAGATCACAGCTCAGGACAGTATGGACAG 3470

Qy ||||||| 3541 TGGGCCCAAAGCTGGCAGACTTCATTATCCGGATCAATCAATGCCTGGAGCACCAAG 3600

Db ||||||| 3471 TGGGCCCAAAGCTGGCAGACTTCATTATCCGGATCAATCAATGCCTGGAGCACCAAG 3530

Qy ||| ||| 3601 GAGCCCTTTCTGGATCAAGGTGGATCTGTTGGCACCAATGATTATTACGGCATCAAG 3660

Db 3531 GATCCCCACTCCTGGATCAAGGTGGATCTGTTGGCACCAATGATCATTACGGCATCATG 3590
Qy 3661 ACCCAGGGTGCCCGTCAGAAGTTCTCCAGCCTCTACATCTCTCAGTTATCATCATGTAT 3720
Db 3591 ACCCAGGGTGCCCGTCAGAAGTTCTCCAGCCTCTACATCTCCAGTTATCATCATGTAC 3650
Qy 3721 AGTCTTGATGGGAAGAAGTGGCAGACTTATCGAGGAAATTCCACTGGAACCTTAATGGTC 3780
Db 3651 AGTCTTGACGGGAGGAACCTGGCAGAGTTACCGAGGGAAATTCCACGGCACCTTAATGGTC 3710
Qy 3781 TTCTTGCAATGTGGATTCATCTGGATAAAACACAATATTTAACCTCCAATTATT 3840
Db 3711 TTCTTGCAATGTGGACGCATCTGGATTAAACACAATATTTAACCTCCGATTGTG 3770
Qy 3841 GCTCGATACATCCGTTGCACCCAACTCATTATAGCATTGCAGCAGCACTCTCGCATGGAG 3900
Db 3771 GCTCGGTACATCCGTTGCACCCAAACACATTACAGCATCCGCAGCACTCTCGCATGGAG 3830
Qy 3901 TTGATGGCTGTGATTAAATAGTGCAGCATGCCATTGGGAATGGAGAGTAAGCAATA 3960
Db 3831 TTGATGGCTGTGATTAAACAGTTGCAGCATGCCCTGGGAATGCAGAATAAGCGATA 3890
Qy 3961 TCAGATGCACAGATTACTGCTTACCTACTTACCAATATGTTGCCACCTGGTCTCCT 4020
Db 3891 TCAGACTCACAGATCACGGCCTCCTCCACCTAACGAAATATTTGCCACCTGGTCTCCT 3950
Qy 4021 TCAAAAGCTGACTTCACCTCCAAGGGAGGAGTAATGCCCTGGAGACCTCAGGTGAATAAT 4080
Db 3951 TCACAAGCCGACTTCACCTCCAGGGCGGACGAATGCCCTGGCAGCCCGGGTGAGCAGC 4010
Qy 4081 CCAAAAGAGTGGCTGCAAGTGGACTTCCAGAAGACAATGAAAGTCACAGGAGTAACACT 4140
Db 4011 GCAGAGGAGTGGCTGCAGGTGGACCTGCAGAAGACGGTAAGGTACAGGCATCACCACC 4070
Qy 4141 CAGGGAGTAAATCTCTGCTTACCAAGCATGTATGTGAAGGGAGTTCTCATCTCCAGCAGT 4200
Db 4071 CAGGGCGTGAAGTCCCTGCTCAGCAGCATGTATGTGAAGGGAGTTCTCGTGTCCAGTAGT 4130
Qy 4201 CAAGATGGCCATCAGTGGACTCTCTTTTCAGAATGCCAAAGTAAGGTTTCAGGGA 4260
Db 4131 CAGGACGGCCGCCGCTGGACCCCTGTTCTTCAGGACGGCACACGAAGGTTTCAGGGA 4190
Qy 4261 AATCAAGACTCCTCACACCTGTGGTAACCTCTAGACCCACCGTTACTGACTCGCTAC 4320
Db 4191 AATCAGGACTCCTCCACCCCGTGGTAACGCTCTGGACCCCCCGCTGTTACCGCGCTAC 4250
Qy 4321 CTTCGAATTCAACCCCCAGAGTTGGGTGCACCAAGATTGCCCTGAGGATGGAGGTTCTGGGC 4380
Db 4251 CTGAGGATCCACCCACCGAGCTGGCGCAGCACATGCCCTGAGGCTGAGGTTCTAGGA 4310
Qy 4381 TGCGAGGCACAGGACCTCTAC 4401
Db 4311 TGTGAGGCACAGGATCTCTAC 4331